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SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket No.	50082/015002
				Serial No.	09/976,605
				Applicant	Grant McFadden et al.
				Filing Date	October 11, 2001
				Group	1645
				IDS Filed	November 7, 2002
				Customer No.	21559

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U.S. PATENTS

Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
llw	5,834,419	11/10/98	McFadden et al.	1	—	

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
llw	WO 92/17583	10/15/92	PCT	—	—	
↑	WO 91/16431	10/31/91	PCT	1	—	
↑	WO 96/33730	10/31/96	PCT	—	—	
↓	WO 97/11714	04/03/97	PCT	1	—	
↓	WO 97/44054	11/27/97	PCT	—	—	

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)

llw	Ahuja et al., "Chemokine receptors and molecular mimicry," <i>Immunol. Today</i> 15:281 (1994).
↑	Alcami et al., "Soluble Interferon-gamma receptors encoded by poxviruses," <i>Comp. Immunol. Microbiol. Infect. Dis.</i> 19:305 (1996).
↑	Alcami et al., "Vaccinia, cowpox, and camelpox viruses encode soluble gamma interferon receptors with novel broad species specificity," <i>J. Virol.</i> 69:4633 (1995).
↑	Alcami et al., "Receptors for gamma-interferon encoded by poxviruses: implications for the unknown origin of vaccinia virus," <i>Trends Microbiol.</i> 4:321 (1996).
↑	Amano et al., "Identification and characterization of the thymidine kinase gene of Yaba virus," <i>J. of General Virology</i> 76:1109, (1995)
↑	Barinaga, "Viruses launch their own 'Star Wars,'" <i>Science</i> 258:1730 (1992).
↑	Chaudhuri et al., "Expression of the Duffy antigen in K562 cells," <i>J. Biol. Chem.</i> 269:7835 (1994).
↓	Elsner et al., "Eotaxin-2 activates chemotaxis-related events and release of reactive oxygen species via pertussis toxin-sensitive G proteins in human eosinophils," <i>Eur. J. Immunol.</i> 28:2152 (1998).

EXAMINER <i>llw</i>	DATE CONSIDERED <i>7/10/03</i>
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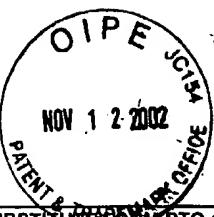
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<p>Wu, Endres et al., "CD4-Independent infection by HIV-2 is mediated by Fusin-CXCR4," <i>Cell</i> 87:745 (1996).</p>			
<p>Essani et al., "Multiple anti-cytokine activities secreted from tanapox virus-infected cells," <i>Microbial Pathogenesis</i> 17:347 (1994).</p>			
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<p><i>h/</i></p> <p>Mossman et al., "Species specificity of ectromelia virus and vaccinia virus interferon-gamma binding proteins," <i>Virol.</i> 208:762 (1995).</p> <p>Mossman et al., "Interferon-<math>\gamma</math> receptors encoded by poxviruses," <i>Viroreceptors, Virokines And Related Immune Modulators Encoded by DNA Viruses</i> pp. 41-54. Ed: McFadden, R.G. Landers Co. (1994).</p> <p>Neote et al., "Molecular cloning, functional expression, and signaling characteristics of a C-C chemokine receptor," <i>Cell</i> 72:415 (1993).</p> <p>Neurath et al., "Search for Hepatitis B virus cell receptors reveals binding sites for Interleukin 6 on the virus envelope protein," <i>J. Exp. Med.</i> 175:461 (1992).</p> <p>Olsen et al., "Immunodiffusion analysis of Yaba poxvirus structural and associated antigens," <i>J. of Virol.</i> 5:212, (1970).</p> <p>Opgenorth et al., "Deletion of the growth factor gene related to EGF and TGF<math>\alpha</math> reduces virulence of malignant rabbit fibroma virus," <i>Virol.</i> 186:175 (1992).</p> <p>Opgenorth et al., "Deletion analysis of two tandemly arranged virulence genes in myxoma virus, M11L and myxoma growth factor," <i>J. Virol.</i> 66:4720 (1992).</p> <p>Opgenorth et al., "Transforming growth factor alpha, shope fibroma growth factor, and vaccinia growth factor can replace myxoma growth factor in the induction of myxomatosis in rabbits," <i>Virol.</i> 192:701 (1993).</p> <p>Paulose et al., "Selective inhibition of TNF-<math>\alpha</math> induced cell adhesion molecule gene expression by tanapox virus," <i>Microbal. Pathogenesis</i> 25:33 (1998).</p> <p>Powell et al., "An I-kappa-B homolog encoded by African swine fever virus provides a novel mechanism for downregulation of proinflammatory cytokine responses in host macrophages," <i>J. Virol.</i> 70:8527 (1996).</p> <p>Schreiber et al., "The myxoma virus TNF-receptor homologue (T2) inhibits tumor necrosis factor-alpha in a species-specific fashion," <i>Virol.</i> 204:692 (1994).</p> <p>Sedger et al., "M-T2: A poxvirus TNF receptor homologue with dual activities," <i>Immunol. and Cell Biol.</i> 74:538 (1996).</p> <p>Smith et al., "T2 open reading frame from the shope fibroma virus encodes a soluble form of the TNF receptor," <i>Biochem. Biophys. Res. Commun.</i> 176:335 (1991).</p> <p>Smith, "Virus proteins that bind cytokines, chemokines or interferons," <i>Curr. Opin. Immunol.</i> 8:467 (1996).</p> <p>Symons et al., "Vaccinia virus encodes a soluble type I Interferon receptor of novel structure and broad species specificity," <i>Cell</i> 81:551 (1995).</p> <p>Trkola et al., "CD4-dependent, antibody-sensitive interactions between HIV-1 and its co-receptor CCR-5," <i>Nature</i> 384:184 (1996).</p> <p>Upton et al., "Tumorigenic poxviruses: genomic organization and DNA sequence of the telomeric region of the shope fibroma virus genome," <i>Virol.</i> 160:20 (1987).</p> <p>Upton et al., "Myxoma virus expresses a secreted protein with homology to the tumor necrosis factor receptor gene family that contributes to viral virulence," <i>Virol.</i> 184:370 (1991).</p> <p>Upton et al., "Encoding of a homolog of the IFN-gamma receptor by myxoma virus," <i>Science</i> 258:1369 (1992).</p> <p>Upton et al., "Mapping and sequence of a gene from myxoma virus that is related to those encoding epidermal growth factor and transforming growth factor alpha," <i>J. Virol.</i> 61:1271 (1987).</p>			
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uu	Upton et al., "Myxoma virus and malignant rabbit fibroma virus encode a serpin-like protein important for virus virulence," <i>Virology</i> 179:618 (1990).				
↓	Upton et al., "Detection of viral homologs of cellular interferon gamma receptors," <i>Methods in Molecular Genetics</i> 4:383 (1994).				
↓	Wu et al., "CD4-induced interaction of primary HIV-1 gp120 glycoproteins with the chemokine receptor CCR-5," <i>Nature</i> 384:179 (1996).				
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